

<p>87-007484/02 D25 E12 (E34) CIBA 09.04.84 CIBA GEIGY AG *CH-659-082-A 09.04.84-CH-001780 (31.12.86) C11d-03/60 07/04 Additive for washing powder comprises readily dissolved speckles - comprising bleaching agent or activator, carbonate and solid acid C87-003014</p>	<p>D(11-B, 11-D2) E(5-S, 7-A2B, 10-A4B, 10-A13B, 10-C2, 10- C4D4, 23-A2, 31-E, 33-D)</p> <p>The speckles dissolve/disperse easily in the wash liquor and the CO₂ gas tends to keep the speckles away from the fabric being washed.</p> <p>PREFERRED MATERIALS (1) is a perborate, percarbonate, persulphate, persilicate, per (poly)phosphate, urea peroxide or organic peracids (or their salts or anhydrides); or is a photoactivator, acting as a photo-bleaching agent, esp. a water-soluble phthalocyanine of formula:</p> <div> $\begin{array}{c} \text{R}_x \\ \diagup \\ \text{(MPc)} \\ \diagdown \\ \text{(SO}_3\text{Y)}_v \end{array}$ </div> <p>MPc = Zn or Al phthalocyanine residue; Y = H, alkali metal or NH₄; v = 1-4; R = F, Cl, Br or I, pref. Cl; x = 0-8. Component (2) is NaHCO₃ or Na₂CO₃.</p> <p>CH-659082-A+</p>
<p>Washing powder additive (A), in the form of speckles, comprises: (1) at least one bleaching/spot removing agent and/or cpds. which improve the activity of such agents, (2) at least one water-soluble inorganic carbonate and (3) at least one acid or acid salt which is solid at room temp. The compsn. may opt. include: (4) cpds. which maintain the speckles on or near the surface of the washing bath, and (5) surfactant in form of soap. Pref. washing powders contain 0.2-50 wt.% (A). USE/ADVANTAGE (A) are simple and universally applicable. By incorporating component (1) with a CO₂-generating couple, deposition of speckles on the fabric is avoided, eliminating problems of uneven distribution of (1).</p>	

Component (3) includes ascorbic, adipic, succinic, maleic,
phthalic, lactic or esp. citric or malonic acids.

FORMULATIONS

Pref. washing powders contain 1-20% speckles, 10-50%
surfactant and 0-80% alkali builder plus other usual components

EXAMPLE

50 pts. (by wt.) Na percarbonate, 35 pts. NaHCO₃ and
15 pts. citric acid were blended (opt. in presence of a trace of
nonionic surfactant), extruded, sieved and dried to give
particles of size 1.5 mm.

The product was incorporated (at 20%) into a washing
powder and this tested for cotton fabric dyed with C.I. 36250.
No adverse effects on the colour was observed. When speckles
contg. Na percarbonate and Na₂SO₄ were used instead, visible
local bleaching of the dye occurred. (9pp1251DAHDwgNo0/0).

CH-659082-A

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